

WHAT IS CLAIMED IS:

1. A liquid crystal display comprising:
 - a scan driver circuit for outputting a scan activating signal;
 - a liquid crystal display panel for receiving the scan activating signal to
 - 5 generate a frame display frequency accordingly;
 - a rotation speed control circuit for receiving a scan activating signal to
 - control a rotation speed of a motor accordingly; and
 - a polygonal column reflector connected to the motor for synchronizing
 - with the rotation of the motor using the center line of the column of the
 - 10 polygonal column reflector as an axis of rotation, wherein the rotation speed of
 - the polygonal column reflector corresponds to the frame display frequency,
 - moreover, the polygonal column reflector has a plurality of reflecting side faces
 - which sequentially reflect the light of a light source onto the liquid crystal
 - display panel along with the rotation of the polygonal column reflector;
- 15 wherein the reflected light of each of the reflecting side faces scans the
- liquid crystal display panel from one end of the liquid crystal display panel to
- one opposite end of the liquid crystal display panel along with the rotation of

the polygonal column reflector so that light required for each frame display is provided.

2. The liquid crystal display according to claim 1, wherein the polygonal column reflector further comprises:

5 a column body with a plurality of body side faces; and

a plurality of reflecting materials disposed onto the body side faces, respectively.

3. The liquid crystal display according to claim 2, wherein the reflecting materials are a plurality of aluminum slices.

10 4. The liquid crystal display according to claim 2, wherein the reflecting materials are a plurality of reflecting mirrors.

5. The liquid crystal display according to claim 2, wherein the column body is hollow.

6. The liquid crystal display according to claim 1, wherein the liquid crystal
15 display further comprises:

a plurality of light absorbing materials disposed at the junction of every

two adjacent reflecting side faces of the reflecting side faces.

7. The liquid crystal display according to claim 1, wherein the liquid crystal display further comprises:

5 a convex lens disposed between the light source and the polygonal column reflector for focusing the light from the light source on the reflecting side faces.

8. A liquid crystal display comprising:

a scan driver circuit for outputting a scan activating signal;

10 a liquid crystal display panel for receiving the scan activating signal to generate a frame display frequency accordingly;

a plurality of rotation speed control circuits, each of the rotation speed control circuits for receiving a scan activating signal to control a rotation speed of a motor; and

15 a plurality of polygonal column reflectors, each of the polygonal column reflectors respectively connected to the motor for synchronizing with the rotation of the motor using the center line of the column of the polygonal column reflector as an axis of rotation, wherein the rotation speed of each of

the polygonal column reflectors corresponds to the frame display frequency, moreover, each of the polygonal column reflectors has a plurality of reflecting side faces which sequentially reflect the light of a light source onto the liquid crystal display panel along with the rotation of the polygonal column reflector;

5 wherein the reflected light from of each of the reflecting side faces of each of the polygonal column reflectors synchronously scans the liquid crystal display panel from one end of the liquid crystal display panel to one opposite end of the liquid crystal display panel along with the rotation of the polygonal column reflectors so that light required for each frame display is provided.

10 9. The liquid crystal display according to claim 8, wherein the liquid crystal display further comprises:

 a plurality of light absorbing materials disposed at the junction of every two adjacent second reflecting side faces of the second reflecting side faces.

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